

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P318319

Luminaire Tested: **GAN-SA5B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23889 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

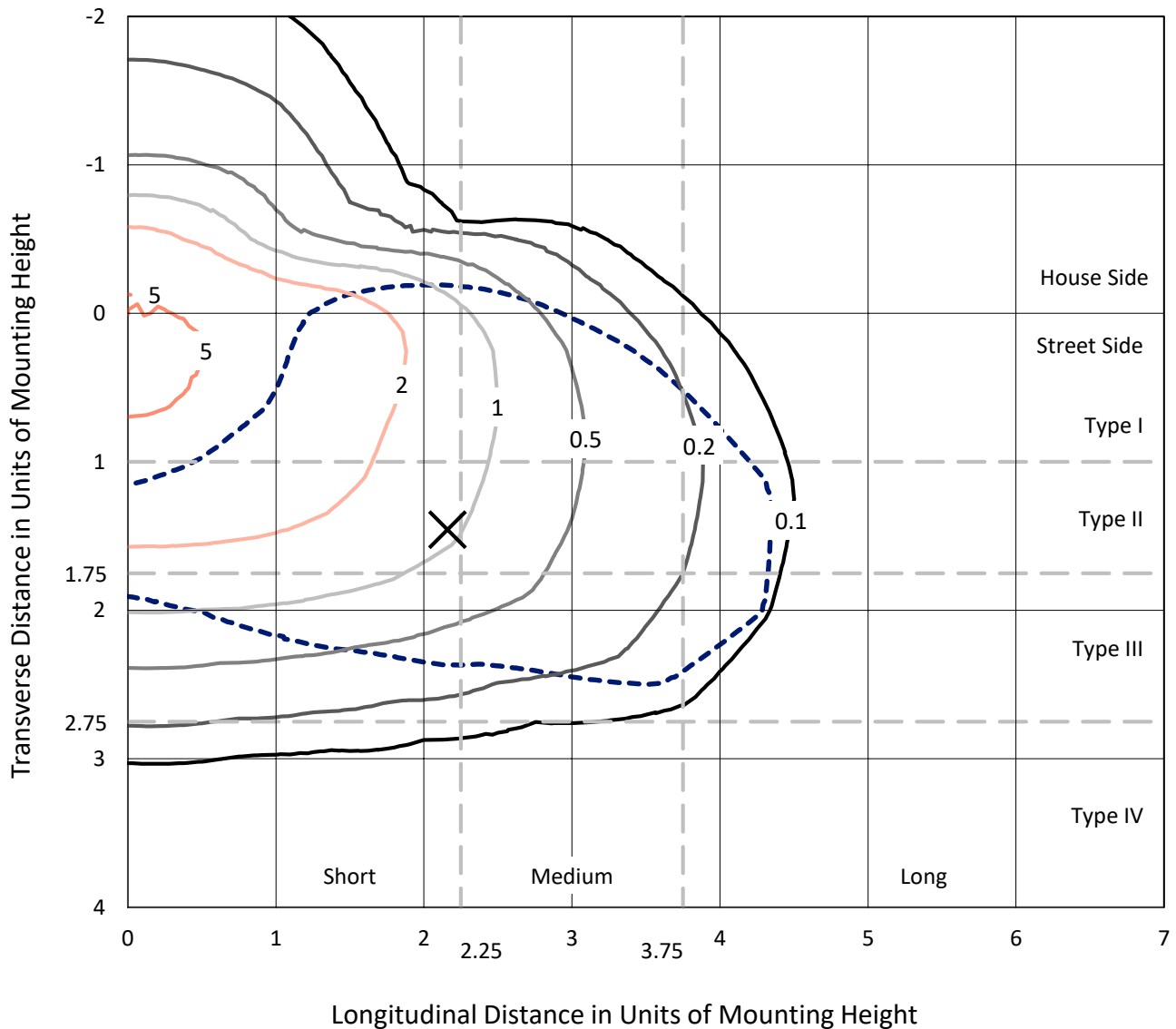
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

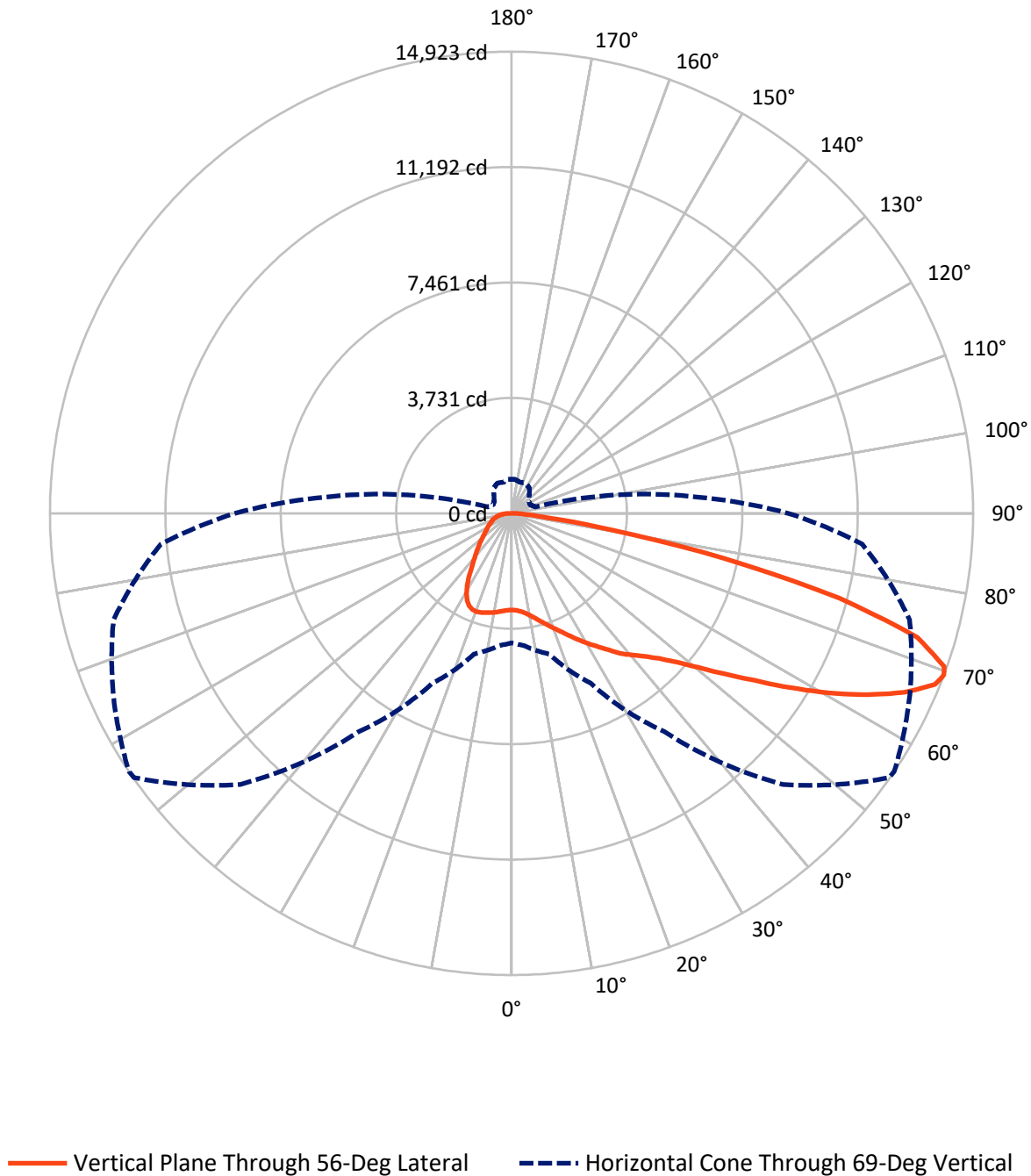
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5320.0	0.0	5320.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18569.0	0.0	18569.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	23889.0	0.0	23889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.7	1.3
10°-20°	986.4	4.1
20°-30°	1721.8	7.2
30°-40°	2473.3	10.4
40°-50°	3422.9	14.3
50°-60°	5015.0	21.0
60°-70°	6114.3	25.6
70°-80°	3380.4	14.2
80°-90°	468.2	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23889.0	100.0
0°-180°	23889.0	100.0

Coefficient of Utilization



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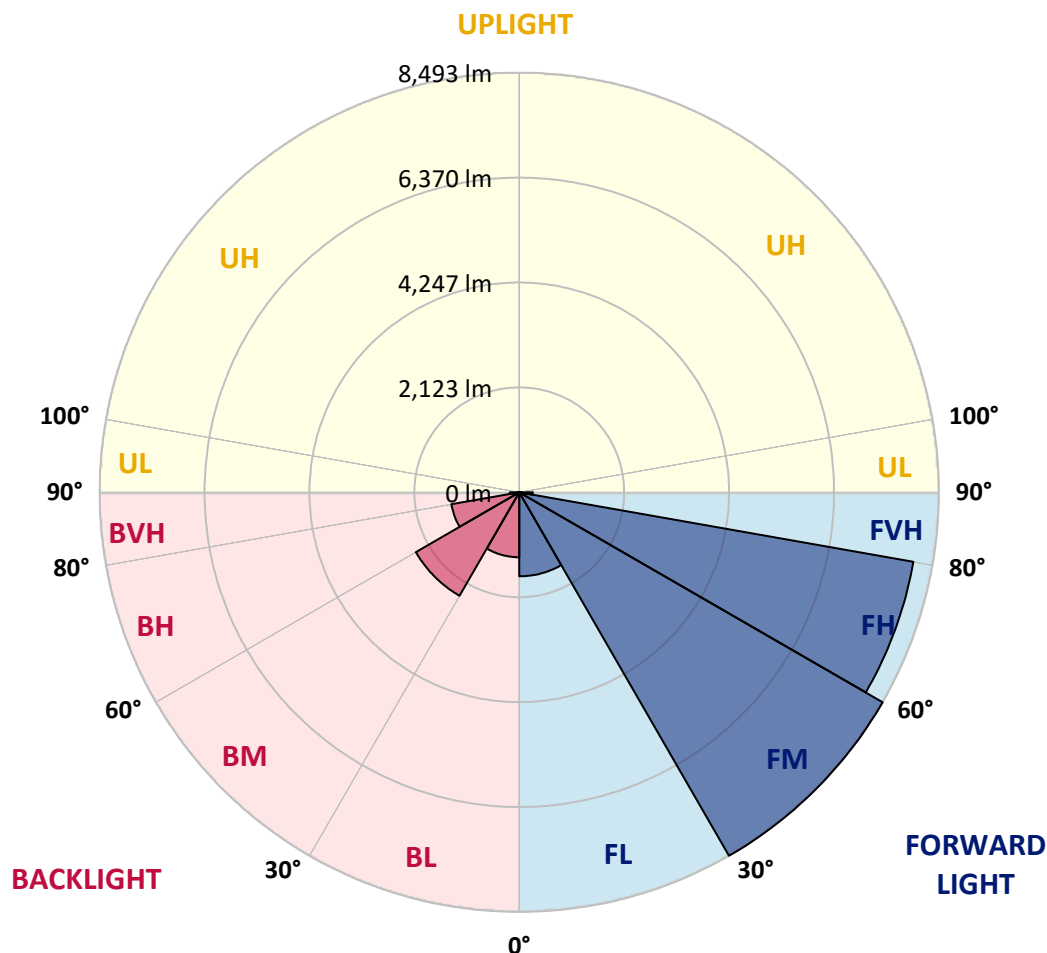
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1700.2	7.1			
FM	(30°-60°)	8493.4	35.6			
FH	(60°-80°)	8099.6	33.9			G4/12000
FVH	(80°-90°)	275.8	1.2			G3/500
BL	(0°-30°)	1314.7	5.5	B3/2500		
BM	(30°-60°)	2417.8	10.1	B2/2500		
BH	(60°-80°)	1395.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	192.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2.5°	3142.9	3146.2	3143.7	3150.3	3142.9	3147.8	3143.7	3143.7	3141.2	3133.8	3125.6
5°	3192.3	3198.8	3194.7	3201.3	3192.3	3193.9	3186.5	3186.5	3179.1	3163.5	3147.0
7.5°	3269.6	3277.0	3273.7	3280.3	3268.0	3268.0	3258.1	3257.3	3242.5	3216.9	3198.0
10°	3361.8	3371.7	3368.4	3378.2	3368.4	3371.7	3361.8	3361.8	3342.0	3305.8	3282.0
12.5°	3495.9	3508.3	3499.2	3498.4	3494.3	3500.9	3492.6	3491.0	3472.9	3423.5	3390.6
15°	3675.3	3688.5	3669.6	3667.9	3644.9	3642.4	3642.4	3639.9	3628.4	3569.2	3514.9
17.5°	3881.9	3886.0	3869.6	3843.2	3813.6	3794.7	3792.2	3798.8	3798.8	3729.6	3643.2
20°	4084.3	4091.7	4078.6	4049.0	4011.1	3983.1	3963.4	3976.5	3975.7	3893.4	3770.8
22.5°	4304.9	4322.2	4302.4	4264.6	4220.1	4188.9	4154.3	4165.8	4166.6	4065.4	3895.9
25°	4590.5	4574.8	4562.5	4509.0	4445.6	4413.5	4381.4	4393.0	4389.7	4250.6	4025.1
27.5°	4843.1	4846.4	4829.9	4773.2	4699.9	4629.1	4627.5	4634.9	4622.6	4443.2	4146.9
30°	5136.9	5138.6	5115.5	5064.5	4984.7	4893.3	4871.9	4884.3	4857.9	4625.8	4275.3
32.5°	5429.1	5437.3	5411.8	5350.1	5285.9	5174.8	5132.0	5140.2	5074.4	4812.7	4407.8
35°	5685.0	5696.5	5688.3	5647.1	5577.2	5481.7	5430.7	5425.8	5344.3	5041.4	4583.1
37.5°	5945.9	5956.6	5947.5	5913.0	5885.0	5783.8	5756.6	5756.6	5615.0	5275.2	4806.1
40°	6214.2	6230.6	6219.9	6172.2	6148.3	6102.2	6037.2	6021.6	5868.5	5555.8	5169.8
42.5°	6463.5	6484.9	6527.7	6499.7	6451.2	6457.8	6326.9	6318.7	6206.8	5970.6	5626.6
45°	6817.4	6848.7	6921.1	6899.7	6889.8	6853.6	6698.1	6690.7	6647.9	6528.5	6193.6
47.5°	7203.4	7246.1	7377.0	7381.1	7487.3	7419.0	7207.5	7182.0	7191.8	7196.8	6885.7
50°	7558.9	7605.8	7820.6	7921.8	8172.0	8186.8	7848.6	7825.5	7864.2	7977.8	7692.2
52.5°	7842.8	7902.0	8170.3	8483.1	8911.8	9033.6	8637.8	8620.5	8649.3	8845.2	8604.0
55°	8051.0	8115.2	8407.3	8976.8	9661.5	9876.3	9546.3	9529.9	9548.0	9797.3	9595.7
57.5°	8099.6	8115.2	8539.0	9309.3	10294.4	10810.4	10658.1	10625.2	10536.3	10753.6	10690.2
60°	7871.6	7934.1	8430.4	9426.2	10784.0	11731.3	11820.2	11779.0	11529.6	11707.4	11656.4
62.5°	7409.1	7521.0	8024.7	9248.4	10975.8	12483.5	12959.9	12910.6	12481.0	12596.2	12351.0
65°	6653.6	6701.4	7230.5	8635.3	10732.2	12964.9	13976.3	13951.6	13410.9	13230.7	12479.3
67.5°	5302.3	5392.0	5841.4	7354.0	9735.6	12908.1	14762.2	14759.8	14018.3	13466.1	12024.2
69°	4188.9	4281.9	4709.8	6057.8	8614.7	12388.8	14893.9	14922.7	14189.4	13322.9	11374.1
70°	3339.6	3447.4	3741.2	5102.3	7619.8	11704.1	14784.4	14836.3	14156.5	13086.7	10774.2
72.5°	1421.2	1508.5	1717.5	2630.2	4644.0	8739.8	13517.9	13713.8	13393.6	11977.3	8904.4
75°	620.5	647.7	742.3	1072.3	2061.5	4756.7	10589.8	10951.9	11452.3	10124.0	6633.0
77.5°	454.3	465.8	517.6	629.6	925.0	1796.5	6810.0	7020.7	8259.2	7367.1	4068.7
80°	351.4	359.6	400.0	462.5	604.1	726.7	3105.8	3286.9	4644.0	3784.0	1694.5
82.5°	279.8	285.6	313.5	340.7	417.2	440.3	1031.2	1143.9	1714.2	1045.2	448.5
85°	260.1	266.6	276.5	248.5	267.5	258.4	446.0	466.6	517.6	410.7	187.6
87.5°	117.7	139.1	274.0	193.4	142.4	113.6	182.7	190.9	214.8	215.6	83.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2.5°	3130.5	3128.1	3132.2	3122.3	3134.6	3133.8	3129.7	3131.4	3139.6	3138.8	3139.6
5°	3149.5	3147.8	3152.8	3145.3	3160.2	3165.1	3165.9	3173.3	3182.4	3184.8	3184.8
7.5°	3197.2	3197.2	3199.7	3189.8	3199.7	3198.8	3194.7	3202.1	3211.2	3212.0	3211.2
10°	3279.5	3280.3	3276.2	3250.7	3242.5	3220.2	3199.7	3200.5	3212.0	3221.1	3223.5
12.5°	3383.2	3379.9	3361.8	3314.9	3280.3	3235.0	3213.7	3212.8	3224.4	3231.8	3234.2
15°	3501.7	3492.6	3445.7	3369.2	3308.3	3263.9	3229.3	3221.1	3214.5	3206.2	3207.1
17.5°	3613.6	3593.0	3514.9	3408.7	3344.5	3285.2	3218.6	3165.1	3128.1	3106.7	3100.1
20°	3727.2	3686.9	3574.1	3445.7	3364.3	3256.4	3128.1	3019.4	2952.0	2920.7	2914.9
22.5°	3830.9	3765.9	3629.2	3484.4	3348.6	3159.3	2957.7	2799.7	2705.9	2663.9	2667.2
25°	3932.1	3841.6	3686.9	3511.6	3269.6	2988.2	2720.7	2526.5	2417.9	2370.9	2369.3
27.5°	4021.0	3918.1	3749.4	3489.3	3122.3	2744.6	2440.1	2250.8	2160.3	2119.9	2113.4
30°	4123.0	4014.4	3832.5	3404.6	2906.7	2463.1	2166.0	2032.7	1968.5	1928.2	1920.8
32.5°	4247.3	4145.2	3900.8	3250.7	2631.0	2169.3	1952.1	1859.1	1800.6	1755.4	1747.1
35°	4428.3	4318.1	3918.1	3030.1	2328.1	1937.2	1794.9	1699.4	1620.4	1562.0	1556.2
37.5°	4655.5	4534.5	3878.6	2744.6	2034.4	1786.6	1664.0	1546.3	1443.5	1361.2	1348.0
40°	4983.0	4800.3	3769.1	2415.4	1817.9	1670.6	1536.5	1402.3	1274.8	1178.5	1159.5
42.5°	5376.4	5112.2	3601.3	2087.8	1659.1	1552.9	1409.7	1243.5	1121.7	1053.4	1043.5
45°	5876.7	5436.5	3368.4	1801.5	1502.7	1435.2	1273.1	1120.0	1044.3	994.1	985.9
47.5°	6447.9	5800.2	3124.0	1568.6	1370.2	1325.0	1163.7	1064.9	1004.8	965.3	957.9
50°	7149.9	6210.9	2864.7	1377.6	1236.9	1192.5	1111.8	1034.5	986.7	956.3	948.9
52.5°	7941.5	6674.2	2677.9	1227.0	1126.6	1094.5	1084.7	1018.0	979.3	956.3	948.9
55°	8794.1	7145.7	2476.3	1100.3	1031.2	1040.2	1066.6	1019.6	993.3	965.3	954.6
57.5°	9647.5	7632.9	2251.6	993.3	955.5	999.9	1054.2	1022.9	1000.7	973.6	963.7
60°	10322.4	7941.5	1903.5	903.6	895.4	955.5	1024.6	998.2	969.4	970.3	968.6
62.5°	10637.6	7925.1	1519.2	823.8	835.3	895.4	976.9	959.6	935.7	967.8	970.3
65°	10460.6	7530.1	1182.6	751.4	771.1	832.8	927.5	940.6	948.9	1010.6	1018.8
67.5°	9718.3	6761.4	916.0	688.0	712.7	790.0	932.4	1024.6	1035.3	1100.3	1099.5
69°	8950.5	6040.5	795.8	655.1	683.9	800.7	996.6	1078.1	1037.8	1106.9	1097.0
70°	8306.9	5470.2	731.6	632.9	670.7	819.7	1039.4	1077.3	1025.4	1084.7	1068.2
72.5°	6397.7	3935.4	620.5	591.7	626.3	784.3	1051.7	1053.4	996.6	1008.1	980.1
75°	4388.0	2487.0	541.5	535.7	558.8	706.9	1012.2	1006.5	921.7	905.3	882.2
77.5°	2419.5	1263.2	460.0	482.3	497.9	626.3	920.1	911.8	841.9	807.3	799.1
80°	933.2	553.0	388.4	428.8	438.6	542.3	806.5	799.1	740.7	696.2	683.9
82.5°	352.2	289.7	321.0	371.2	367.9	447.7	683.1	678.9	622.2	557.1	537.4
85°	162.9	173.6	254.3	306.1	282.3	331.7	546.4	553.9	484.7	407.4	407.4
87.5°	69.1	97.1	180.2	231.3	190.1	223.8	400.8	382.7	351.4	243.6	228.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)